

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/003745

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ A61B8/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A61B8/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 34511/1989 (Laid-open No. 124553/1990) (Fuji Electric Co., Ltd.), 15 October, 1990 (15.10.90), Description; page 9, line 14 to page 10, line 12; Fig. 1 (Family: none)	1-6
Y	JP 5-31109 A (Toshiba Corp.), 09 February, 1993 (09.02.93), Column 5, lines 32 to 35; Figs. 2, 11 & US 5251631 A	1-6

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- "&" document member of the same patent family

Date of the actual completion of the international search
25 May, 2004 (25.05.04)Date of mailing of the international search report
08 June, 2004 (08.06.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Category	Classification of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 3-184532 A (Aloka Co., Ltd.), 12 August, 1991 (12.08.91), Page 3, upper left column, Line 6 to page 3, upper right column, Line 3; Figs. 1, 2 & US 5152294 A	3-6
Y	JP 2002-153473 A (Matsushita Electric Industrial Co., Ltd.), 28 May, 2002 (28.05.02), Column 2, Line 28 to column 3, Line 3 (Family: none)	3-6
Y	JP 2-57242 A (Matsushita Electric Industrial Co., Ltd.), 27 February, 1990 (27.02.90), Page 3, upper right column, Lines 13 to 20 (Family: none)	5, 6
Y	JP 1-227743 A (Fuji Electric Co., Ltd.), 11 September, 1989 (11.09.89), Page 1, lower right column, Line 6 to page 2, upper left column, Line 17 to page 2, upper right column, Line 1 & GB 2216660 A	2, 4, 6